

### Condition Monitoring Tool for GEA Purifiers

As part of our After Sales Support and on account of the continuous deterioration of marine fuels, our company PANMARINE Ltd has developed a Condition Monitoring Tool, to assist in optimizing the performance of fuel purifiers. As agents and distributors of **GEA**, house of the world-acclaimed Westfalia Separator Brand, we have created this tool to support the operator and/or end-user on-board the vessel, maintaining the cleaning efficiency of our GEA purifiers at the optimum level.

Our service engineers at PANMARINE Ltd will assist you in checking the settings and parameters of the separation according to the maker's recommendations, while we can take care of the full spectrum of field servicing, including commissioning, inspection, maintenance, general overhaul, vibration analysis as well as the implementation of upgrades.

In principle, the Condition Monitoring Tool targets to:



- *Monitor separator condition*
- *Check separator settings and parameters*
- *Provide Remedial actions for better efficiency*
- *Prevent failures*

#### **Scope of supply**

The monitoring system that PANMARINE developed consists of the basic parameters and settings that are critical for safe operation. A technical support survey has to be filled by the crew members every three months, which our Service engineers will then evaluate and revert with recommendations and remedial actions. All findings will be registered in a database in order to have a full view of each vessel. In further details, scope of supply includes the below:

- *Delivery of Technical Support survey – every 3 months*
- *Assessment of survey by our engineers and feedback with remedial actions*
- *Review of fuel sample results*
- *Review of alarm buffer log*
- *Provision of instructions from our Technical library, specific to issues encountered*
- *Helpdesk 24/7*
- *Contact point for urgent cases*
- *Maintaining Data-Base of findings/Main Issues per vessel*
- *Annual Report*

### Commercial Terms

- Price: 450 €/per vessel/per year
- Payment Terms:
- Payment 20 % upon order
  - Balance 80% @ 30 Days upon submission of annual Report to be prepared by PANMARINE

### Who we are



PANMARINE & Industrial Services, as authorized service agents of GEA Westfalia Separator GmbH, with an experience derived from several turn-key projects and technical support to over **5.000** separators installed on the Greek Fleet, is confident to offer full support to our customers and provide the highest quality of services.

Manned with five (5) authorized Service engineers, PANMARINE provides -with the passion of perfection - full support to customer needs, trains crew members to handle failures and is available 24/7 for any technical assistance required.

**Our Condition Monitoring System** comes as a benefit for the customer in order to ensure that the separators operate according to the maker's recommendations. Our help-desk will prove its worth, when needed to address any anomaly-including bunkering of hard to process fuels.

Our service engineers offer more than just maintenance and upgrades. By keeping in close contact with our customers, they help to identify and suggest equipment configurations, adaptations or additions that might help to boost separation efficiency or competitiveness.

*We remain at your disposal,*

*Vangelis Doussis*

*For PANMARINE Industrial Services Ltd*